## MPIC/TSSG/MED-096-70

25X1

	MANGRANDOM FOR: Director, Mational Photographic Interpretation Center
25X1 25X1	subject : Request for Approval of a Contract with to Design and Fabricate a Soom 240 Filar Ryepiece for from FY-1970 Red Funds
	1. This memorandum requests approval for the commitment of RAD funds for a contract. The specific request is stated in Paragraph 7.
25X1	instrument currently utilized by photo interpreters in MFIC to view film in roll form. The Zoom 240 is easily mounted on standard 940, 1540 or equivalent light tables and is widely used in all phases of the readout of recommaissance imagery. During these phases, comparative measurements of objects on the imagery are very useful to the photo interpreter as an aid in the identification of targets. When the imagery is of a large enough scale—and the accuracy is not critical—these measurements can be made with a 7% or 1% tube magnifier comtaining an engraved scale or reticle. Somewhat more critical measurements and measurements of small objects require a higher resolution viewing system. The Zoom 240 Microstereoscope, which has a useful magnification range of up to 50%, is well adapted for use in the general viewing of roll film and would be an ideal instrument for use in making comparative measurements if it were equipped with an adequate measuring capability. The Reagery Exploitation Group, NFIC, has 223 Zoom 240's at present with plans to purchase additional units in FY-71 and FY-72. IEU has specifically requested that a measuring symplece be developed for these instruments. It is proposed that we develop a Filar Eyepiece for the Zoom 240 in order to provide the photo interpreter with a practical comparative measuring instrument.
25X1	completing the development of a 7% Wide Field Filar and Compensating Eyepiece set for the High Power Stereoviewer; however, this instrument only provides the capability of viewing film chips. The development proposed here would utilize the same basic upper eyepiece and filar reticle design as currently used in the Wide Field Filar Eyepiece except that it will be optically and mechanically matched to the Zoom 240. The Zoom 240 Filar Eyepiece, mounted in one eyepiece tube, will permit the photo interpreters to make emparative measurements at magnifications up to 52% on one image; and the compensating eyepiece, mounted in the other eyepiece tube, will maintain equal eye position so as to parmit the photo interpreter to view the image stereoscopically while emparative. The proposed development will be completed five

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25X1 25X1	SEMMENT: Request for approval of a Contract with to Resign and Pabricate a Zoos 240 Filar Eyepiece for from FI-1570 RED Funds	25)
	months from date of contract. The technical risk on this project should be minimal because of the similarity between this project and the development of the Wide Field Filar Eyepiece for the High Power Stereoviewer.	
25X1 25X1	The contractor was solicited as a sole source for this development.    developed the Zoom 240, as well as the Wide Field Filar Eyeplece for the Bigh Fower Stereoviewer. Because of the absolute necessity for matching these special eyepleces to the micro-coope and because of the componality between this design and the design of the Wide Field Filar Eyeplece, was the only company decord qualified to bid on this project.	25)
25X1	5. Upon successful completion of the development of the Filar and Compensating Eyepiece set for the Zoom 240, it is anticipated that an order of 35 units will be made by IEG/MPIC at an estimated cost of per unit set.	
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25X1	7. It is requested that approval be granted to negotiate a contract with the for the Development of a	
	Filar and Compensating Eveniece set for the Zoom 240 Microstereoscope at a cost not to exceed	
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	Chief, Technical Services & Support Group, NFIC	25)
	Attachments: 1. Proposal 2. Form 2420	
	ANNOUNCE:  ANNOUNCE:  Date	
	Pirector  Bational Photographic Interpretation Center	
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